

WHAT IS CLAIMED IS:

Sub
CL 1

1. A method for enabling improved access to data stored in a log of a computer memory system, said
5 computer memory system having multiple copies of said log comprising a primary log and a secondary log, each log storing data transactions with a database system stored on said computer memory system, the method comprising the steps of:
10
 - a) responding to a process request for access to a log, by determining a parameter indicative of demand for access to one of said copies of said log; and
15
 - b) assigning the process to another of said copies of the log if said parameter has reached a threshold value.
2. The method as recited in claim 1, wherein said
20 one of said copies of the log is the primary log.
3. The method as recited in claim 2, wherein said parameter is a count of the processes assigned to the primary log.
25
4. The method as recited in claim 3 wherein, when said count of processes assigned to the primary log reaches a predetermined threshold, step b) distributes new process assignments to both the primary log and

secondary log in an attempt to balance work of the respective logs.

5 5. The method as recited in claim 3 wherein, when
said count of processes assigned to the primary log
reaches a predetermined threshold, step b) alternates
new process assignments to the primary log and the
secondary log in an attempt to balance work of the
respective logs.

10

6. The method as recited in claim 2, wherein said
parameter is a count of requests that have been queued
to the primary log.

15 7. A memory media including instructions for
controlling a computer to enable improved access to
data stored in a log of said computer's memory system,
said memory system having multiple copies of said log
comprising a primary log and a secondary log, each log
20 storing data transactions with a database system stored
on said memory system, the memory media comprising:

a) means for controlling said computer to respond
to a process request for access to a log, by
25 determining a parameter indicative of demand for access
to one of said copies of said log; and

b) means for controlling said computer to assign
the process to another of said copies of the log if
30 said parameter has reached a threshold value.

8. The memory media as recited in claim 6, wherein said one of said copies of the log is the primary log.

5 9. The memory media as recited in claim 7, wherein said parameter is a count of the processes assigned to the primary log.

10 10. The memory media as recited in claim 8, wherein when said count of processes assigned to the primary log reaches a predetermined threshold, means b) controls said computer to distribute new process assignments to both the primary log and secondary log in an attempt to balance work of the respective logs.

15 11. The memory media as recited in claim 8, wherein when said count of processes assigned to the primary log reaches a predetermined threshold, means b) controls said computer to alternates new process
20 assignments to the primary log and the secondary log in an attempt to balance work of the respective logs.

25 12. The memory media as recited in claim 7, wherein said parameter is a count of requests that have been queued to the primary log.

Sub B11 13. A computer system that enables improved access to data stored in a log of said computer's memory system, said memory system having multiple
30 copies of said log comprising a primary log and a secondary log, each log storing data transactions with

a database system stored on said memory system, the computer system further comprising:

5 a) means for determining a parameter indicative of demand for access to one of said copies of said log; and

10 a) logging means responsive to a process request for access to a log, by assigning the process to another of said copies of the log if said parameter has reached a threshold value.

14. The computer system as recited in claim 13, wherein said one of said copies of the log is the
15 primary log.

15. The computer system as recited in claim 13, wherein said parameter is a count of the processes assigned to the primary log.

20 16. The computer system as recited in claim 13, wherein said logging means, when said count of processes assigned to the primary log reaches a predetermined threshold, distributes new process
25 assignments to both the primary log and secondary log in an attempt to balance work of the respective logs.

30 17. The computer system as recited in claim 13, wherein said logging means, when said count of processes assigned to the primary log reaches a predetermined threshold, alternates new process

ST9-99-033

assignments to the primary log and the secondary log in an attempt to balance work of the respective logs.

18. The computer system as recited in claim 13,
5 wherein said parameter is a count of requests that have been queued to the primary log.

add B2